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4 Ho	our Emergency Response CHEMTREC company code D. #M62349	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		N -					
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20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Style CF 17 LABELMASTER, AN AMERICAN LABELMARK CO., CHICAGO, IL 60646 (800)621-5808

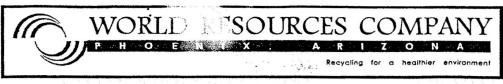
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

Month Day



Printed/Typed Name

**GENERATOR COPY** 



EFFECTIVE 11/09/98

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8).

Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation—and, typically, State analogues as well-requires the retention period to be extended further in specified cases.]

TO: WORLD RESOURCES COMPANY	8113 Wes	st Sherman Street, Ph	noenix AZ 85043-3000	
FROM: ALASKAN Copper Works	628 [COMPANY]	Hantoxed ST.	Sepattle WA 9813	14
MANIFEST 99006		DATE OF SHIPMENT :	3-3-99	
This shipment of material is subject to the land disposal	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards	
restrictions of 40 CFR Part 268.  The applicable land disposal	D007	non-wastewater	40 CFR § 268.40	
restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table:				
SIGNATURE: A 9.		TITLE: ENVIRONA	mental Tech	
PRINTED: GERSO A. Thomp	080~	DATE: 8-3	3-99	

# Instructions for the Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

# **Material Safety Data Sheet**

D007 Recyclable Material

Recycler's Facility Name and Site Address:

# World Resources Company

8113 West Sherman Street Phoenix, Arizona 85043

Tel: 1-602-233-9166 Fax: 602-936-9164

Issued: 3/18/94

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night. Call: CHEMTREC 800-424-9300 (Use CHEMTREC Company Code "WORR") For calls from other countries call: 202-483-7616 Collect

### Section 1

# PRODUCT - MATERIAL IDENTIFICATION

Environmental Protection Agency (EPA) Waste Classification: D007

Generic Name: Chromium metal bearing sludge Chemical Family: Non-Ferrous metal particulates

Synonym: Metallic Residues From High Frequency Burning Table

DOT Shipping Name: RQ, Hazardous Waste, Solid, n.o.s. (D007)

DOT Hazard Class: 9; Packing Group: III DOT Identification Number: NA 3077 **DOT Emergency Response Guide 31 Applies** 

#### HAZARDOUS INGREDIENTS Section 2

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology:
Aluminum	7429-90-5	0-5	10 mg/m 3	No Data Available
Chromium	7440-47-3	0-15	0.5 mg/m 3	2.75 mg/kg (Rat, Oral)
Copper	7440-50-8	0-10	1.0 mg/m 3	0.35 mg/kg (Mouse, Oral)
Nickel	7440-02-0	0-10	1.0 mg/m 3	No Data Available
Zinc	7440-66-6	0-5	none established	No Data Available

# Section 3

# PHYSICAL AND REACTIVITY DATA

Description: Moist, Sandy consistency Brown to Black colored

Water Content 10-20% by weight

Specific Gravity: 2.0 to 3.0

Solubility: Insoluble in water

Density:100 to 150 lbs/cu/ft

Incompatible Reactivity: Extreme heat sources.

Oxidants

Vapor Pressure: Insignificant

Stability: Avoid contact with acids, extreme heat

Polymerization: Will not occur Boiling Point: Above 2000°C

Melting Point: Above 1000°C

pH: 7.0 to 10.0

Odor: Nil

# Section 4

# FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable, under normal conditions Special Firefighting Procedures: Dry Chemical

Oxidation: Non-oxidizing Explosive: Non-explosive

Product Decomposition.... (Due to Fire or Explosion): Hydrogen gas, ZnO ( under extreme external heat) Fire Diamond



# Section 5

Listed Carcinogen component: Chromium, Nickel Toxicology: See Sec. 2 (Chromium, Nickel) Route of Entry: Inhalation and Ingestion

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidnevs and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

# Section 7

# PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

### Section 8

# CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required. Eye Protection: Safety Glasses recommended. Hand Protection: Gloves recommended.

# Section 9

### GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my included this MSDS describes the recyclable material listed on the attached Manifest Number:

Company Name and Address:

Alaskan Copper Works 628 Hanford st. Seattle Wa 98134 Company Name and Address: \_

Signature:

AKC-0017509

- -- 14100 2104

# MATERIAL IDENTIFICATION

DOT BAS SHIPPING DESCRIPTION AND TECHNICAL NAME-Hazardous waste, solid, n.o.s., (F006)

NCRTH AMERICAN EMERGENCY RESPONSE GUDEECCY

# POTENTIAL HAZARDS

## FRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- · Containers may explode when heated.
- . Some may be transported hot.

#### HEALTH

- · Inhalation of material may be harmful.
- · Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce imitating, corresive and/or toxic cases.
- · Funcif from fire control may cause ocliution.

# PUBLIC SAFETY

- CALL CHEMITREC at 1-800-494-9300 FOR EMERGENCY ASSISTANCE (Use CHEMITREC Company Code "WORR")
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.

#### PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective cicthing will only provide limited protection.

# **EVACUATION**

#### Fire

. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1.2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

# **EMERGENCY RESPONSE**

# HRE

#### Small Fires

Dry chemical, CO<sub>2</sub>, water spray or regular foam.

# Large Fires:

- · Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

# Fire Involving Tanks:

- Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

## SPILL OR LEAK

- · Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

# Small Dry Spills

- With clean shovel, place material into clean, dry container and cover locsely; move containers from spill area
- Take up with sand or other noncombustible absorbent material and place into containers for later disposal Large Spills
- Dike far ahead of liquid spill for later disposal.
- Cover cowder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

## FIEST AID

- · Move victim to fresh air.
- Call emergency medical care.
- Apply artificial respiration if victim is not breathing.
- · Administer caygen if breathing is difficult.
- · Pemove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eves with rurning water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

LAND DISPOSAL

<u>RESTRICTION NOTICE</u>

FOOG

Recycling for a healthier environmen

EFFECTIVE 11/09/98

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation—and, typically, State analogues as well—requires the retention period to be extended further in specified cases.]

To:	WORLD RESOURCES COMPANY		8113	West St	nerman Street, F	Phoenix AZ 85043-30	000	
From: COMPANY NAME:			COMPANY ADDRESS:					
	Alaskan Copper Works		P.O. Bo	x 3546,	Seattle, WA 98124	**		
	ANIFEST 99006		DATE (		8-3-9	9		
	shipment of material is subject to ad disposal restrictions of 40 CFR	EPA Mate Numbe		Tı	reatability Group	CFR Reference for Treatment Standar	- 1	
	268. The applicable land disposal	F006		non-	-wastewater	40 CFR §268.40		
	triction information, provided in					2		
accord	lance with 40 CFR §268.7(a)(2), is							
	as shown in this table:							
SIG	NATURE: A C		TIT	عے E:	nviromental	Tech		
NAME	PRINTED: GERSCO A. Thom	p50√	DA	TE:	8-3-99	;		

# Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice (as stated in 40 CFR §268.7(a)(2)).

An F006 designation on the LDRN *includes* the following constituents: cadmium (D006), chromium (D007), lead (D008), silver (D011), cyanide, and nickel. However, the designation does *not* include arsenic (D004), barium (D005), mercury (D009), or selenium (D010). If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below (as stated in 40 CFR §268.9).

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then no additional entry is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) must be added to the LDR Notice.

	E INFORMATION CHARACTERISTIC	APPROPRIATE ENTRY ON LDR NOTICE				
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards		
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40		
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40		
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40		
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40		

**106 GENERATOR** 

ATTOTT VA

# Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043-3000 Tele: 1-602-233-9166 Fax: 1-623-936-9164

Issued: 8/7/90 Ravised: 9/18/96 DLS

A CONTRACTOR LANGUAGE CONTRACTOR CONTRACTOR

Call CHEWITHEC only in the event of emergencies during shipping that involve a spill, leak, fire, or action (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night, Call: CHEMTREC 800-424-3300

(Use Chemitrec Company Code "WORR") For calls from other countries call: 202-483-7616 Collect

Scalous

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Studge DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (FOGE)
Environmental Protection Agency (EPA) Waste Classification: F006
DOT Identification Number: NA 3077

Chemical Family: Metallic (Hydroxide) Precipitates Synonym: Non-ferrous Metal Hydroxide Fifter Cake Guide 171 of the North American Emergency Response Guidebcok Applies

É	Section 2			- HAZARD	OUS INGREDIENTS?
	Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
	Copper Hydroxide Nickel Hydroxide Calcium Hydroxide Diatemacecus Earth	20427-59-2 12054-48-7 1305-62-0 68855-54-9	0-30 0-15 0-15 0-10	1.0 mg/m <sup>3</sup> (Dust) 1.0 mg/m <sup>3</sup> (Dust) .5.0 mg/m <sup>3</sup> (Dust) 6.0 mg/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg LD-50 1,500 mg/kg LD-50 7,340 mg/kg LD-50 3,160 mg/kg

Sections

Description: Solid, Clay-like Clumps, Gray/Green to Brown, Water Content 30-80%

Specific Gravity: 2.5 to 3.5 Solubility: Insoluble in water Density: 64 to 90 lbs/cu/ft

Incompatible Reactivity: None Known Vapor Pressure: Insignificant

Stability: Avoid contact with acids Polymerization: Will not occur

PHYSICAL AND REACTIVITY DATA

Boiling Point: Above 2600°C Meiting Point: Above 1800°C pH: 7.0 to 10.0

Cdor: Nil

AND EXPLOSION DATA

Flashcoint Nonflammable Special Firefighting Procedures: None

Oxidation: Non-exidizing Explosive: Non-explosive Product Decomposition. . . . (Due to Fire or Explosion): None

NFPA Fire Diamond



Section 5

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide) . Route of Entry: Inhalation and Incestion

Section 6 - HEALTH EFFECTS AND FIRST AND Inhalation: Dust may imitate muccus membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Fare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may imitate eyes. Wash with copicus amounts of water for 15 minutes, if effects persist, call a physician. Skin: Dust may imitate skin, causing forms of eczema. Wash with scap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, lccneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kichey damage and metal-sensitive skin or skin lesions.

#### PRECAUTIONS FOR SAFE HANDLING Section 7

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to Spills: avoid inhalation or ingestion. Store in a dry area under cover from rain.

Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

#### Section 8

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required. Eye Protection: Safety Glasses recommended. Hand Protection: Gloves recommended.

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been	taken
in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable	

Date: 8-3-99 99006 material listed on the attached Manifest Number: Telephone: 206-382-8379

Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124 Company Name and Address:

Signature:

Recycled Paper

# MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s., (F006)

NCRIH AMETICAN
EMERGENCY REPCNSE
GUIDEBCCK

# POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- · Containers may explode when heated.
- · Some may be transported hot.

# HEALTH

- · Inhalation of material may be harmful.
- · Centact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce initating, corresive and/or toxic cases.
- · Funcif from fire control may cause collution.

# PUBLIC SAFETY

- CALL CHEMITREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMITREC Company Code TWORS)
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-30 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.

# PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- · Structural firefighters' protective cicthing will only provide limited protection.

### **EVACUATION**

## Fire

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1.2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

# **EMERGENCY RESPONSE**

# FIRE Small Fires

· Dry chemical, COo, water spray or regular foam.

# Large Fires:

- · Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high prassure water streams.
- Dike fire-control water for later disposal.

# Fire Involving Tanks:

- · Coci containers with flooding quantities of water until well after fire is out.
- . Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

#### SPILL OR LEAK

- Do not touch or walk through spilled material.
- · Stop leak if you can do it without risk.
- Prevent dust cloud.
- Avoid inhalation of asbestos dust.

## Small Dry Spills

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.
   Small Spills
- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

# Large Spills

- Dike far shead of llouid spill for later disposal.
- Cover cowder spill with plastic sheet or tarp to minimize screading.
- · Prevent entry into waterways, sewers, basements or confined areas\_

# FIRST AID

- Move victim to fresh air.
- · Call emergency medical care.
- · Apply artificial respiration if victim is not breathing.
- Administer cxygen if breathing is difficult.
- Femove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eves with turning water for at least 20 minutes.
- · Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themseives.